

04-07-05

IFW-#1

Attorney's Docket No.: 13498-005004 / MET-4



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Thomas J. McMurry et al.      Art Unit : 1616  
Serial No. : 10/755,506      Examiner : Michael G. Hartley  
Filed : January 12, 2004  
Title : DIAGNOSTIC IMAGING CONTRAST AGENTS WITH EXTENDED BLOOD  
RETENTION

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form.

Under 35 USC §120, this application relies on the earlier filing date of application serial numbers 10/034,522, 08/875,365, and 08/382,317, filed on December 20, 2001, December 12, 1997, and February 12, 1995, respectively. All of the references were submitted to and/or cited by the Office in the prior applications and, therefore, are not provided in this application.

This statement is filed after a first Office action on the merits, but before receipt of a final Office action. A check for \$180 in payment of the late submission fee of §1.17(p) is enclosed. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 4/6/05

Teresa A. Lavoie  
Teresa A. Lavoie, Ph.D.  
Reg. No. 42,782

Fish & Richardson P.C., P.A.  
60 South Sixth Street, Suite 3300  
Minneapolis, MN 55402  
Telephone: (612) 335-5070  
Facsimile: (612) 288-9696

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Substitute Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark Office

Attorney's Docket No.

13498-005004

Application No.

10/755,506

**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.56(b))

Applicant

Thomas J. McMurry et al.

Filing Date

January 12, 2004

Group Art Unit

1616

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	6,652,835	11/25/03	Lauffer et al.			
	AB	6,652,834	11/25/03	Anelli et al.			
	AC	6,479,681	11/12/02	Brocchetta et al.			
	AD	6,461,588	10/08/02	Anelli et al.			
	AE	6,342,598	01/29/02	Anelli et al.			
	AF	6,307,074	10/23/01	Brocchetta et al.			
	AG	5,846,519	12/08/98	Tweedle et al.			
	AH	5,725,840	03/10/98	Klaveness et al.			
	AI	5,674,470	10/07/97	Tweedle et al.			
	AJ	5,660,814	08/1997	Uggeri et al.			
	AK	5,649,537	07/1997	Anelli et al.			
	AL	5,635,180	06/1997	Morgan, Jr., et al.			
	AM	5,573,752	11/1996	Ranganathan et al.			
	AN	5,545,395	08/1996	Tournier et al.			
	AO	5,525,338	06/1996	Goldenberg			
	AP	5,512,322	04/1996	Liberti et al.			
	AQ	5,505,932	04/1996	Grinstaff et al.			
	AR	5,487,390	01/1996	Cohen et al.			
	AS	5,474,756	12/12/95	Tweedle et al.			
	AT	5,407,659	4/1995	Deutsch et al.			
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	AV	5,380,519	01/1995	Schneider et al.			
	AW	5,362,475	11/1994	Gries et al.			
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	AAA	5,314,679	05/1994	Lewis et al.			

Examiner Signature

Date Considered

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 13498-005004	Application No. 10/755,506
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant Thomas J. McMurphy et al.	
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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	ABB	5,250,285	10/1993	Lauffer et al.			
	ACC	5,223,243	06/1993	Rocklage et al.			
	ADD	5,094,848	03/1992	Brixner			
	AEE	5,091,169	02/25/92	Rocklage et al.			
	AFF	5,078,986	01/1992	Bosworth et al.			
	AGG	5,047,659	04/1995	Deutsch et al.			
	AHH	5,017,359	05/1991	Nicolau et al.			
	AII	4,980,502	12/1990	Felder et al.			
	AJJ	4,963,344	10/1990	Gries et al.			
	AKK	4,957,939	09/1990	Gries et al.			
	ALL	4,899,755	02/1990	Lauffer et al.			
	AMM	4,885,363	12/1989	Tweedle et al.			
	ANN	4,880,008	11/1989	Lauffer			
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	APP	4,834,964	05/1989	Rosen			
	AQQ	4,746,507	05/1988	Quay			
	ARR	4,714,607	12/1987	Klaveness			
	ASS	4,687,658	08/1987	Quay			
	ATT	4,647,447	03/1987	Gries et al.			
	AUU	4,639,365	01/1987	Sherry			
	AVV	4,615,879	10/1986	Runge et al.			
	AWW	4,472,509	09/1984	Gansow et al.			
	AXX	4,401,647	8/1983	Krohn et al.			
	AYY	4,361,544	11/1982	Goldenberg			
	AZZ	4,352,751	10/1982	Wieder et al.			
	AAAA	4,331,647	05/1982	Goldenberg			
	ABBB	4,308,149	12/1981	Frank et al.			

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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	ACCC	4,150,047	04/1979	Coe et al.			
	ADDD	3,632,637	01/1972	Martell			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AEEE	8633082	01/1983	AU				
	AFFF	2,139,374	07/1995	CA				
	AGGG	3401052	07/1984	DE				
	AHHH	3129906	02/1983	DE				
	AIII	2606721	09/1976	DE				
	AJJJ	0450742	10/1991	DE				
	AKKK	0661279	07/1995	EP				
	ALLL	0543482	05/1993	EP				
	AMMM	0535668	04/1993	EP				
	ANNN	0485045	05/1992	EP				
	AOOO	0463644	01/1992	EP				
	APPP	0455380	11/1991	EP				
	AQQQ	0454078	10/1991	EP				
	ARRR	0405704	01/1991	EP				
	ASSS	0374947	06/1990	EP				
	ATTT	0347947	12/1989	EP				
	AUUU	0331616	09/1989	EP				
	AVVV	0304780	03/1989	EP				
	AWWW	0292761	11/1988	EP				
	AXXX	0292689	11/1988	EP				
	AYYY	0290047	11/1988	EP				
	AZZZ	0290041	11/1988	EP				

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(37 CFR §1.98(b))

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	AAAAA	0 279 307	11/13/96	EP				
	ABBBB	0258616	03/1988	EP				
	ACCCC	0250358	12/1987	EP				
	ADDDD	0232751	08/1987	EP				
	AEEEE	0230893	08/1987	EP				
	AFFFF	0169299	04/1990	EP				
	AGGGG	0165728	12/1985	EP				
	AHHHH	0133603	02/1985	EP				
	AIIII	2643370	08/1990	FR				
	AJJJJ	2354993	01/1978	FR				
	AKKKK	WO 93/03351	02/1993	PCT				
	ALLLL	WO 91/03200	03/1991	PCT				
	AMMMM	WO 90/03804	04/1990	PCT				
	ANNNN	WO 89/12631	12/1989	PCT				
	AOOOO	WO 89/01476	02/1989	PCT				
	APPPP	WO 89/01475	02/1989	PCT				
	AQQQQ	WO 88/07521	10/1988	PCT				
	ARRRR	WO 86/06605	11/1986	PCT				
	ASSSS	WO 86/02841	05/1986	PCT				
	ATTTT	WO 86/02352	04/1986	PCT				
	AUUUU	WO 86/02005	04/1986	PCT				
	AVVVV	WO 86/01410	03/1986	PCT				
	AWWWW	WO 85/05554	12/1985	PCT				
	AXXXX	WO 85/02772	07/1985	PCT				
	AYYYY	WO 98/05625	12/1998	PCT				
	AZZZZ	WO 95/32741	12/1995	PCT				
	AAAAA	WO 91/03200	03/1991	PCT				

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Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	ABBBBB	WO 91/18630	12/1991	PCT				
	ACCCCC	WO 95/15306	06/1995	PCT				
	ADDDDD	WO 95/28392	10/1995	PCT				
	AEEEEEE	WO 00/38738	07/2000	PCT				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AFFFFF	"Phenolic derivatives of (hydroxyalkyl)alkyl=enediamineacetic acids and their salts", <u>Chemical Abstracts</u> , 89, p. 561, Abstract No. 215057x (1978)
	AGGGGG	Bagley et al., "Distribution of Intravenously Administered Ferrioxamine-59 and Ferric N,N'-Ethylenebis ( $\alpha$ Imino-2-Hydroxy-5-Chlorophenylacetate) in Rats", <u>Proc. Soc. Exptl. Biol. Med.</u> , 127, pp. 798-801 (1968)
	AHHHHH	Barnhart et al., "Is there Stereospecificity in Hepatic Uptake of Phenyl-derivatized Contrast Agents?", <u>Contrast Media Research</u> , (October 1993)
	AIIIII	Best et al., "Chemical and In Vivo Characterization of Gd-bis-Phenylalanyl DTPA Derivatives: A Class of Hepatobiliary MRI Contrast Agents", <u>Proc. Soc. Magnetic Resonance, Second Meeting</u> , v1, p. 264 (August 1994)
	AJJJJJ	Bogdanov et al., "A New Macromolecule as a Contrast Agent for MR Angiography: Preparation, Properties, and Animal Studies", <u>Radiology</u> , 187, pp. 701-706 (1993)
	AKKKKK	Brasch et al., "Contrast-Enhanced NMR Imaging: Animal Studies Using Gadolinium-DTPA Complex", <u>AJR</u> , 142, pp. 625-630 (1984)
	ALLLLL	Brittain et al., "Luminescence and NMR Studies of the Conformational Isomers of Lanthanide Complexes with an Optically Active Polyaza Polycarboxylic Macrocyclic", <u>Inorg. Chem.</u> , 23, pp. 4459-66 (1984)
	AMMMMM	Caravan et al., "Gadolinium (III) Chelates as MRI Contrast Agents: Structure, Dynamics, and Applications", <u>Chem. Rev.</u> , 99, pp. 2293-2352 (1999)
	ANNNNN	Carter et al., "Structure of Serum Albumin", <u>Adv. Protein Chem.</u> , 45, pp. 153-203 (1994)
	AOOOOO	Chen et al., "Paramagnetic Metalloporphyrins as Potential Contrast Agents in NMR Imaging", <u>FEBS Letters</u> , 168, pp. 70-74 (1984)
	APPPPP	Chu, "The Quantitative Analysis of Structure-Activity Relationships", <u>Burger's Medicinal Chemistry, Part 1</u> , pp. 393-418 (4 <sup>th</sup> Ed., 1980)
	AQQQQQ	Davison, "Protein Binding", <u>Fundamentals of Drug Metabolism and Drug Disposition</u> , La Du et al., eds., pp. 63-75, R.E. Krieger Pub. Co. (1971)
	ARRRRR	Desreux et al., "Nuclear Magnetic Resonance Spectroscopy of Lanthanide Complexes with a Tetraacetic Tetraaza Macrocyclic. Unusual Conformation Properties", <u>Inorg. Chem.</u> , 19, pp. 1319-24 (1980)
	ASSSSS	Felix et al., "Brain Tumors: MR Imaging with Gadolinium-DTPA", <u>Radiology</u> , 156, pp. 681-88 (1985)

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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	ATTTTT	Goldstein, "The Interactions of Drugs and Plasma Proteins," <u>Pharm. Rev.</u> , 1949, 1:102-165
	AUUUUU	Graf et al., "Iron-catalyzed Hydroxyl Radical Formation", <u>J. Biol. Chem.</u> , 259, pp. 3620-24 (1984)
	AVVVVV	Haddock et al., "Biliary Excretion of Chelated Iron", <u>Proc. Soc. Exptl. Biol. Med.</u> , 120, pp. 663-68 (1965)
	AWWWWW	Harrison et al., "Hepato-biliary and Renal Excretion in Mice of Charged and Neutral Gadolinium Complexes of Cyclic Tetra-aza-phosphinic and Carboxylic Acids", <u>Magn. Res. Imaging</u> , 11, pp. 761-70 (1993)
	AXXXXX	He et al., "Atomic Structure and Chemistry of Human Serum Albumin", <u>Nature</u> , 358, pp. 209-215 (1992)
	AYYYYY	Hoey et al., "Chemistry of X-Ray Contrast Media", <u>Radiocontrast Agents</u> , Sovak, ed., Springer-Verlag, pp. 23-125 (1984)
	AZZZZZ	Koch-Weser and Sellers, "Binding of Drugs to Serum Albumin (First of Two Parts)," <u>Medical Intelligence</u> , 1976, 294(6):311-316
	AAAAAA	Koch-Weser and Sellers, "Binding of Drugs to Serum Albumin (Second of Two Parts)," <u>Medical Intelligence</u> , 1976, 249(10):526-531
	ABBBBB	Konishiroku Photo Industry Co., Ltd., "Processing of Silver Halide Color Photographic Material", <u>Chemical Abstracts</u> , 101, p. 537, Abstract No., 219677p (1984)
	ACCCCC	Kragh-Hansen, "Molecular Aspects of Ligand Binding to Serum Albumin", <u>Pharm. Rev.</u> , 1981, 33(1): 17-53
	ADDDDD	Krishnamurthy et al., "Technetium-99m-Iminodiacetic Organic Anions: Review of Biokinetics and Clinical Application in Hepatology", <u>Hepatology</u> , 9, pp. 139-53 (1989)
	AEEEEEE	Lauffer et al., "Albumin Binding of Paramagnetic Hepatobiliary Contrast Agents: Enhancement of Outer Sphere Relativity", <u>Nucl. Med. Biol.</u> , 15, pp. 45-46 (1988)
	AFFFFFF	Lauffer et al., "Hepatobiliary MR Contrast Agents: 5-Substituted Iron-EHPG Derivatives", <u>Magn. Res. Med.</u> , 4, pp. 582-90 (1987)
	AGGGGG	Lauffer et al., "Paramagnetic Metal Complexes as Water Proton Relaxation Agents for NMR Imaging: Theory and Design," <u>Chem. Rev.</u> , 87, pp. 901-927 (1987)
	AHHHHH	Lauffer et al., "Preparation and Water Relaxation Properties of Proteins Labeled with Paramagnetic Metal Chelates", <u>Magn. Res. Imaging</u> , 3, pp. 11-16 (1985)
	AIIIII	Lauffer et al., "Preparation and Water Relaxation Properties of Proteins Labeled with Paramagnetic Metal Chelates", <u>Magn. Res. Imaging</u> , 3, pp. 11-16 (1985)
	AJJJJJ	Lauffer et al., "Stereospecific Binding of rac-Iron (III) N,N' Ethylenebis[(5-bromo-2-hydroxyphenyl)glycinate] to the Bilirubin Site on Human Serum Albumin," <u>J.A.C.S.</u> , 109, pp. 2216-18 (1987)
	AKKKKK	Lazar et al., "NMR and Potentiometric Studies of 1,4,7-triazacyclononane-N,N',N''-tris(methylenephosphonate monethylester) and its Complexes with Metal Ions", <u>Inorganica Chimica Acta</u> , 195, pp. 89-93 (1992)
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	MMMMMM	Leo et al., "Partition Coefficients and Their Uses," <u>Chem. Rev.</u> , 71, pp. 525-616 (1971)

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	ANNNNN	Levi et al., "Two Hepatic Cytoplasmic Protein Fractions, Y and Z, and Their Possible Role in the Hepatic Uptake of Bilirubin, Sulfobromophthalein, and Other Anions", <u>J. Clin. Invest.</u> , 48, pp. 2156-67 (1969)
	AOOOOO	Martell et al., "Development of Iron Chelators for Cooley's Anemia," <u>Inorganica Chimica Acta</u> , 138, pp. 215-230 (1987)
	APPPPP	Martell, "The Design and Synthesis of Chelating Agents", <u>Development of Iron Chelators for Clinical Use</u> , Martell et al., eds., Elsevier North Holland, Inc., pp. 65-104 (1981)
	AQQQQQ	McCandlish et al., "Comparison of the Structures and Aqueous Solutions of [o-Phenylene-diaminetetraacetato (4-)] cobalt (III) and [Ethylene-diaminetetraacetato (4-)] cobalt (III) Ions", <u>Inorg. Chem.</u> , 17, pp. 1383-94 (1978)
	ARRRRR	McMurry et al., "The Effect of a Phosphodiester Linking Group on Albumin Binding, Blood Half-Life, and Relaxivity of Intravascular Diethylenetriaminepentaacetato Aquo Gadolinium(III) MRI Contrast Agents," <u>J. Med. Chem.</u> , 2002, 45:3465-3474
	ASSSSS	Moerlein et al., "The Chemistry of Gallium and Indium as Related to Radiopharmaceutical Production", <u>In. J. Nucl. Med. Biol.</u> , 8, pp. 277-87 (1981)
	ATTTTT	Moerlein et al., "The Chemistry of Gallium and Indium as Related to Radiopharmaceutical Production", <u>In. J. Nucl. Med. Biol.</u> , 8, pp. 277-87 (1981)
	AUUUUU	Motekaitis et al., "New Synthetic, Selective, High-Affinity Ligands for Effective Trivalent Metal Ion Binding and Transport", <u>Inorganica Chimica Acta</u> , 198-200, pp. 421-428 (1982)
	AVVVVV	Oksendal et al., Biodistribution and Toxicity of MR Imaging Contrast Media", <u>Magn. Res. Imaging</u> , 3, pp. 157-65 (1993)
	WWWWW	Pecoraro et al., "Gallium and Indium Imaging Agents. 2. Complexes of Sulfonated Catechylamide Sequestering Agents", <u>Inorg. Chem.</u> , 21, pp. 2209-15 (1982)
	AXXXXX	Rocklage et al., "Manganese (II) N,N'-diacetate 5,5'-Bis(phosphate). Synthesis and Characterization of a Paramagnetic Chelate for Magnetic Resonance Imaging Enhancement", <u>Inorg. Chem.</u> , 28, pp. 477-85 (1989)
	AYYYYY	Rocklage et al., "Structural and Thermodynamic Characterization of Manganese (II) N,N'-Dipyridoxylethylenediamine-N,N'-diacetate. A Novel Manganese (II) Chelate", <u>Inorg. Chem.</u> , 27, pp. 3530-34 (1988)
	AZZZZZ	Rowland et al., <u>Clinical Pharmacokinetics: Concepts and Applications</u> , Ch. 6, pp 65-74, Lea &Febiger (1980)
	AAAAAA	Smidt et al., "Association of Antisense Oligonucleotides with Lipoproteins Prolongs the Plasma Half-life and Modifies the Tissue Distribution", <u>Nucleic Acids Research</u> , vol. 19, no.17, pp. 4695-700 (September 11, 1991)
	BBBBBB	Smidt et al., "Association of Antisense Oligonucleotides with Lipoproteins Prolongs the Plasma Half-life and Modifies the Tissue Distribution", <u>Nucleic Acids Research</u> , vol. 19, no.17, pp. 4695-700 (September 11, 1991)
	CCCCCC	Sorrentino et al., "From Albumin to the Cytoplasm: the Hepatic Uptake of Organic Anions", <u>Progress in Liver Disease</u> , Popper et al, ed., W.B. Saunders Co., pp. 203-24 (1990)
	DDDDDD	Sun et al., "Synthesis of Multidentate Ligands Containing Hydroxypyridyl Donor Groups", <u>Tetrahedron</u> , 47, pp. 357-364 (1991)
	EEEEEE	Swanson et al., <u>Pharmaceuticals in Medical Imaging</u> , Swanson et al., eds., Macmillan Pub., pp. 279-644 (1990)

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	AFFFFFFF	Swanson, "Enhancement Agents for Ultrasound: Fundamentals", <u>Pharmaceuticals in Medical Imaging</u> , Swanson et al., eds., Macmillan Pub., pp. 682-87 (1990)
	GGGGGG	Taliaferro et al., "New Multidentate Ligands. 22. N,N'-Dipyridoylethylenediamine-N,N'diacetic Acid: a New Chelating Ligand for Trivalent Metal Ions", <u>Inorg. Chem.</u> , 23, pp. 1188-92 (1984)
	HHHHHH	Taliaferro et al., "New Multidentate Ligands. XXIV. Disodium-N,N'bis(2-hydroxy-5-sulfobenzyl)ethylenediamine-diacetic acid, a New Chelating Ligand for Trivalent Metal Ions", <u>Chemical Abstracts</u> , 101, pp. 369-70, Abstract No. 44224j (1984)
	AIIIIII	Taliaferro et al., "New Multidentate Ligands. XXIV. Disodium-N,N'bis(2-hydroxy-5-sulfobenzyl)ethylenediamine-diacetic acid, a New Chelating Ligand for Trivalent Metal Ions", <u>Inorganica Chimica Acta</u> , 85, pp. 9-15 (1984)
	AJJJJJJ	Tayyab et al., "Serum albumin; a universal biocarrier," <u>Med. Sci. Res.</u> , 1989, 17:1-4
	KKKKKK	Thakur, "Radioactive Compounds of Gallium and Indium", <u>Radiotracers for Medical Applications</u> , 1, Raydu, ed., CRC Press, p. 201 (1990)
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